

Landfill gas a viable energy alternative
creating financial and environmental
benefits for the Commonwealth of
Virginia

Landfills in Virginia

- Approximately 30 active landfills in Virginia, 10 are very large.
- Industry has trended to large landfills due to increased regulation.
- To comply with regulations, significant landfills are required to install collection systems.

Landfill Gas Projects in Virginia

- Approximately 8 Landfill gas projects in Virginia.
- Enerdyne has 2 operational projects in Virginia and is developing 4 more.
- Existing projects generate equivalent of 60 MW's of electricity
- There is potential to create a total of over 200 MW's
- While environmental and financially beneficial this is very small to the 25,000 MW electric industry.

Two principal types of Landfill gas projects:

- Electricity in modified internal combustion engines.
- Direct use in heating applications such as boiler fuels.

Annual Environmental Benefits:

- Reduce Nox emissions by 800 tons.
- Reduce CO by 500 tons.
- Reduce 420,000 tons of CO₂ each year.
- This is equivalent of planting 400,000 acres of trees or eliminating the use of 260,000 motor vehicles.
- There is the potential to increase this by a factor of 4.

Financial Benefits:

- Enerdyne is currently saving Virginia companies more than \$3 million each year.
- These projects will also generate new tax revenue.
- The industry has the potential to save Virginia companies more than \$15 million each year.





